

REMARKS

Present Status of the Application

Applicants thank the Examiner for the thorough examination of this application. However, the drawings are objected to as failing to comply with 37 CFR 1.84(p)(5). The present specification is objected by the current Office Action. Claims 9-19 are rejected under 35 U.S.C. 112, 2nd paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention. Claims 9-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Medina et al. (US-6,359,389; hereinafter "Medina"). Claims 9, 12-16 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Mametsuka (US-7,030,840; hereinafter "Mametsuka"). Claims 9-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Medina in view of Mametsuka. Claims 9-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mametsuka in view of Medina.

In response thereto, Applicants have been rewritten and submitted as newly-added claims 20-32 to clarify the claimed subject matter, so that claims 9-19 have been canceled accordingly. The newly added claims 20-32 are fully supported by the present specification without adding new matter. Applicants have amended paragraphs [0006] and [0008] of the present specification. After entry of the foregoing amendments, claims 1, 2, 4-8 and 20-32 remain pending in the present application, and reconsideration of those claims is respectfully requested.

Discussion of the drawings objection

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5).

In response thereto, Applicants have amended paragraph [0006] of the present specification. Specifically, the paragraph [0006] of the present specification has recited the reference character "110" therein, so that the drawings now are comply with 37 CFR 1.84(p)(5). As such, the objection with respect to the drawings should be withdrawn.

Discussion of the specification objection

The present specification is objected by the current Office Action.

In response thereto, Applicants would like to thank the Examiner of pointing out the informalities and accordingly amended the present specification.

Discussion of Claim Rejections under 35 U.S.C. 112

Claims 9-19 are rejected under 35 U.S.C. 112, 2nd paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter applicants regard as the invention.

In response thereto, Applicants have canceled claims 9-19 and newly added claims 20-32 in order to overcome all of the claim rejections under 35 U.S.C. 112, 2nd paragraph. Upon entry of the amendments, Applicants respectfully submit that claims 20-32 now are definite for particularly pointing out and distinctly claiming the subject matter applicants regard as the invention, so that the rejections with respect to claims 9-19 should be withdrawn.

Discussion of the claim rejection under 35 USC 102 and 103

Claims 9-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Medina. Claims 9, 12-16 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Mametsuka. Claims 9-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Medina in view of Mametsuka. Claims 9-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mametsuka in view of Medina.

In response thereto, Applicants have been rewritten and submitted as newly-added claims 20-32 to clarify the claimed subject matter, so that Applicants hereby otherwise traverse these rejections upon the entry of the proposed amendments. Specifically, Applicants respectfully submit that the present application as set forth in newly amended claims 20-32 is patentable over Medina, Mametsuka or any of the other cited references, taken alone or in combination, and thus should be allowed.

With respect to the currently amended claim 20, it recites in all below:

A circuit disposed on a glass substrate of a display panel for generating a Gamma voltage signal, comprising:

at least a first Gamma resistor having a first terminal for receiving a first digital signal and a second terminal for outputting a first current;

at least a second Gamma resistor having a first terminal for receiving a second digital signal and a second terminal for outputting a second current;

a feedback resistor having a first terminal coupled to the second terminal of the first Gamma resistor and the second terminal of the second Gamma resistor; and

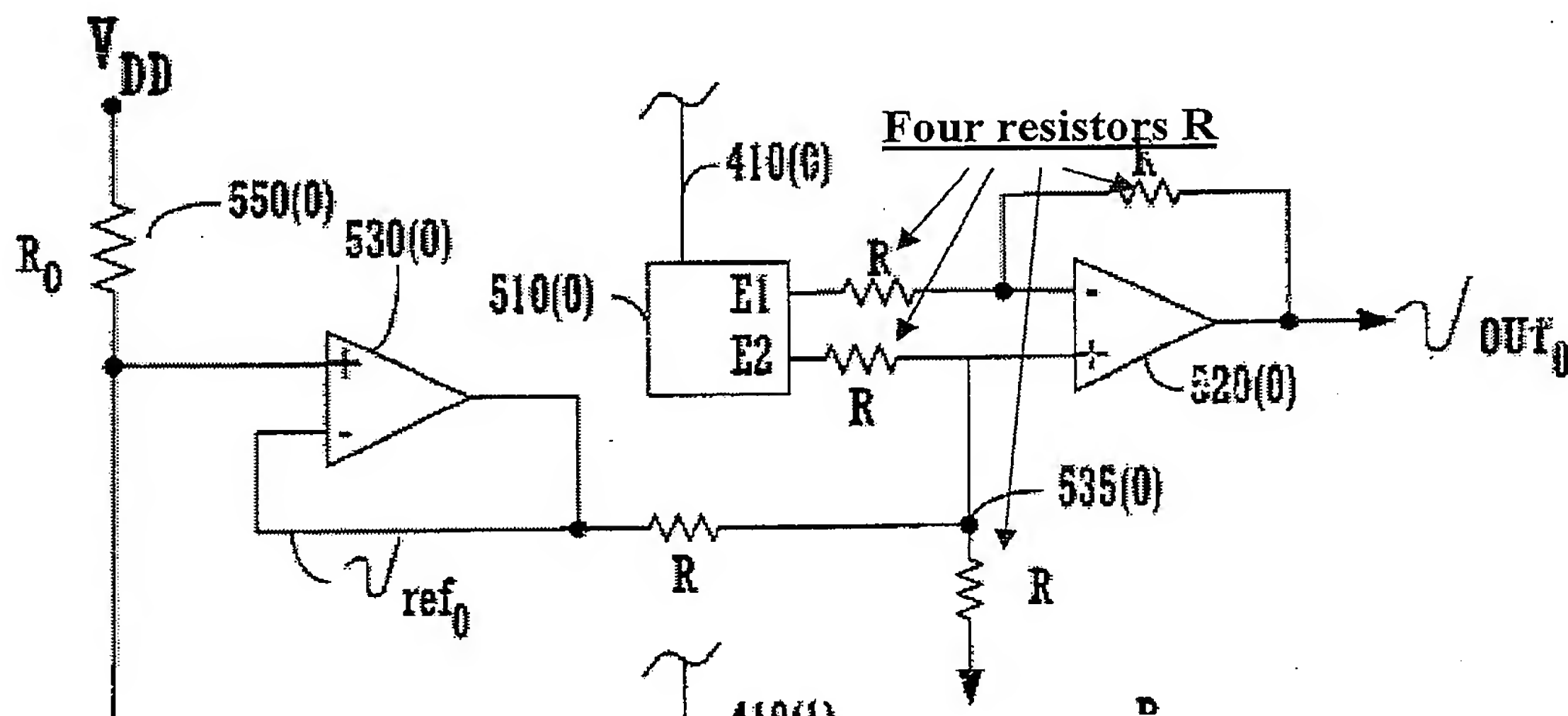
an operational amplifier having a non-inverting terminal coupled to a reference voltage, an inverting terminal coupled to the first terminal of the feedback resistor for receiving the first and the second currents, and an output terminal coupled to a second terminal of the feedback resistor for outputting the Gamma voltage signal,

wherein the Gamma voltage signal is determined by the first current, the second current and the feedback resistor.

Examiner asserted that Medina has disclosed all features in claim 19; however, Applicants have been rewritten and submitted as newly-added claims 20-32 to clarify the claimed subject matter.

Applicants respectfully submit that the first Gamma resistor, the second Gamma resistor, the feedback resistor and the operational amplifier as set forth in claims 20 and 27 are formed as an adder circuit to generate a Gamma voltage signal according to a plurality of digital signals.

However, referring to FIG. 6 in Medina, the operational amplifier 520(0), as below for example, and four resistors R (red arrow position) are formed as a subtractor circuit to generate a Gamma voltage signal according to a plurality of analog signals (i.e. 535(0), E1 and E2) rather than a plurality of digital signals. Moreover, Examiner has admitted that the feedback resistor and operational amplifier are not disclosed in Mametsuka,



Accordingly, Applicants respectfully submit that the circuit structure of the present invention is different from the circuit structure of Medina, and the way of the operation of the present invention is also different from the way of the operation of Medina. Therefore, Applicants respectfully submit that the present application as set forth in newly amended claim 20 is patentable over Medina, Mametsuka or any of the other cited references, taken alone or in combination, and thus should be allowed.

If an independent claim is non-obvious under 35 U.S.C. 103, then any claim depending therefrom is non-obvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). As a result, claims 21-26 directly or indirectly depending upon the allowable claim 20 are also novel and patentable over the cited references of record as a matter of law.

For similar reasons above, since claim 27 substantially comprises all features as set forth in claim 20, so that claim 27 is novel and patentable over Medina, Mametsuka or any of the other cited references, taken alone or in combination, and thus should be allowed.

If an independent claim is non-obvious under 35 U.S.C. 103, then any claim depending therefrom is non-obvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). As a result, claims 28-32 directly or indirectly depending upon the allowable claim 27 are also novel and patentable over the cited references of record as a matter of law.

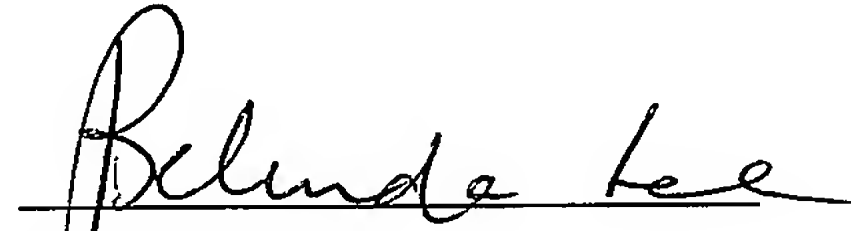
CONCLUSION

For at least the foregoing reasons, it is believed that the pending claims 1, 2, 4-8 and 20-32 are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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Respectfully submitted,


Belinda Lee

Registration No.: 46,863

Jianq Chyun Intellectual Property Office
7th Floor-1, No. 100
Roosevelt Road, Section 2
Taipei, 100
Taiwan
Tel: 011-886-2-2369-2800
Fax: 011-886-2-2369-7233
Email: belinda@jcipgroup.com.tw
Usa@jcipgroup.com.tw